

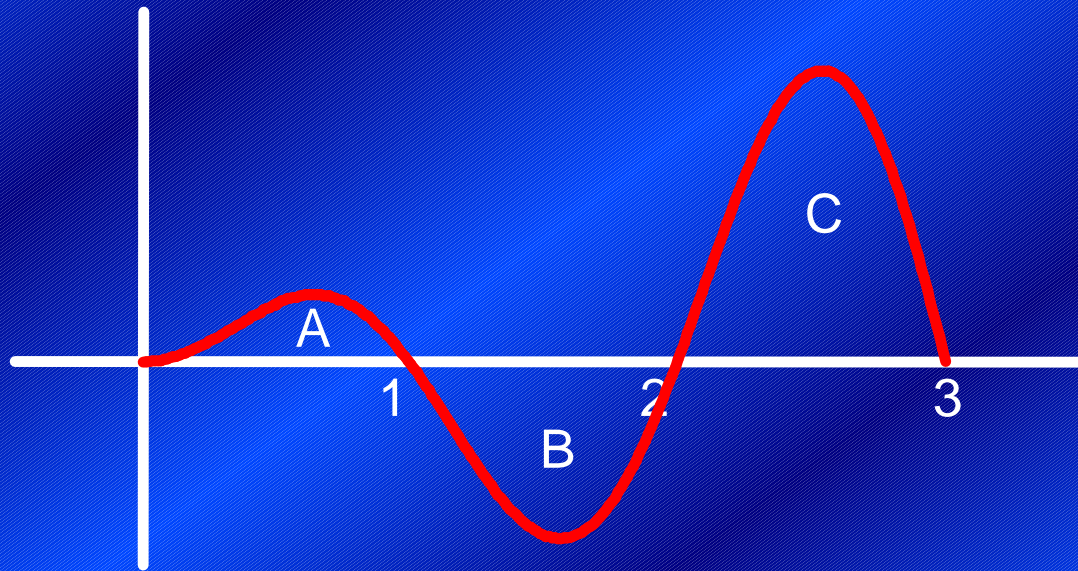
Graph of  $f'$

The graph of  $f'$ , the derivative of  $f$ , is shown. Which of the following statements is true about  $f$ ?

- a)  $f$  is decreasing on the interval  $(-1, 1)$ .
- b)  $f$  is increasing on the interval  $(-2, 0)$ .
- c)  $f$  is increasing on the interval  $(1, 2)$ .
- d)  $f$  has a relative minimum at  $x = 0$ .
- e)  $f$  is not differentiable at  $x = -1$  and  $x = 1$ .

If the area of region A is 1, the area of region B is 2, and the area of region C is 3

then  $\int_0^3 f(x) - 2 \, dx =$



a) 4

b) 0

c) -4

d) -6

e) -8